

Attachment L  
Sampling and Analysis

- (a) Sampling: Representative samples of sewage sludge that is applied to the land, placed on a surface disposal site, or fired in a sewage sludge incinerator shall be collected and analyzed.
- (b) Analytical methods: The following methods shall be used to analyze samples of sewage sludge.
  - (1) Enteric viruses  
ASTM Designation: D 4994-89, "Standard Practice for Recovery of Viruses From Wastewater Sludges", 1992 Annual Book of ASTM Standards: Section 11-Water and Environmental Technology, ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.
  - (2) Fecal coliform  
Part 9221 E or Part 9222D., "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, American Public Health Association, 1015 15th Street, NW., Washington, DC 20005
  - (3) Helminth ova  
Yanko, W.A., "Occurrence of Pathogens in Distribution and Marketing Municipal Sludges", EPA 600/1-87-014, 1987. National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161 (PB 88-154273/AS).
  - (4) Inorganic pollutants  
"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, Second Edition (1982) with Updates I (April 1984) and II (April 1985) and Third Edition (November 1986) with Revision I (December 1987). Second Edition and Updates I and II are available for the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161 (PB-87-120-291). Third Edition and Revision I are available from Superintendent of Documents, Government Printing Office, 941 North Capital Street, NE., Washington, DC 20002 (Document Number 955-001-00000-1).
  - (5) Salmonella sp. bacteria  
Part 9260 D., "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, American Public Health Association, 1015 15th Street, NW., Washington, DC 20005; or  
  
Kenner, B.A. and H.P. Clark, "Detection and enumeration of Salmonella and Pseudomonas aeruginosa", Journal of the Water Pollution Control Federation, Vol.46, no 9, September 1974, pp. 2163-2171. Water Environment Federation, 601 Wythe Street, Alexandria, Virginia 22314
  - (6) Specific oxygen uptake rate  
Part 2710 B., "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, American Public Health Association, 1015 15th Street, NW, Washington, DC 20005
  - (7) Total, fixed and volatile solids  
Part 2540 G., "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, American Public Health Association, 1015 15th Street, NW, Washington, DC 20005
- (c) Percent volatile solids reduction: Shall be calculated using procedures in "Environmental Regulations and Technology - Control of Pathogens and Vectors in Sewage Sludge", Appendix C, EPA 625/R-92/013, December 1992, U.S. Environmental Protection Agency, Office of Research and Development, Washington, DC 20460